

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 91119 Series/Test: / Test Date: July 10, 1991 File Name: **Fan**Make: RaydotModel #: FW-2051Serial #: naManufacturer: RaydotBlade Size: 20"Orifice Dia.: 20.4"**Blade**Number: 4Shape: propellerMaterial: plasticPitch: 40 deg.Clearance: .2"Hub Diameter: --**Shutter**Material: plasticNumber Doors: 7Number Rows: 1Door Length: 20.9"Location: intake**Other Attachments****Motor**Make: MagnetekCat. #: C044Part #: 9-16497305H.P.: 1/2Amps: 5.0 / 2.5Volts: 115 / 230RPM: 1700S.F.: 1Drive Pulley Dia.: directAxle Pulley Dia.: driveCenter Spacing: na**Housing**Material: fiberglassIntake Area: 22" x 22"Discharge Area: 20.5"Depth: 21.3" bottom
25.8" top**Guards**Description: plastic coated
wireSpacing: 1.5"concentricLocation: exhaust

TEST RESULTS

RAYDOT FW-2051

Test: 91119	Static Pressure <u>in. water</u>	Speed <u>rpm</u>	Airflow <u>cfm</u>	Efficiency <u>cfm/Watt</u>
	0.00	1707	5200	9.0
Fan description:	0.05	1704	5050	8.7
20" direct drive, 1/2 hp Magnetek C044	0.10	1702	4890	8.3
motor, fiberglass housing, plastic shutter	0.15	1700	4730	8.0
and guard	0.20	1699	4540	7.7
	0.25	1699	4360	7.4
	0.30	1700	4130	7.1